

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
26 May 2005 (26.05.2005)

PCT

(10) International Publication Number  
**WO 2005/048397 A3**

(51) International Patent Classification<sup>7</sup>: **H01Q 1/00**,  
1/22, 1/32, B60C 23/02

(21) International Application Number:  
PCT/CA2004/001973

(22) International Filing Date:  
17 November 2004 (17.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/481,654 17 November 2003 (17.11.2003) US

(71) Applicant (for all designated States except US): SST  
WIRELESS INC. [CA/CA]; 800 - 1708 Dolphin Avenue,  
Kelowna, British Columbia V1Y 9S4 (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): LEE, Tae Ri  
[CA/CA]; 11791 Cascade Drive, Delta, British Columbia  
V4E 3C3 (CA). SCHNARE, Gordon, Graham [CA/CA];  
659 Commonage Road, Vernon, British Columbia V1H  
1G3 (CA). BOUDREAU, Michael [CA/CA]; 451 - 20th  
Street, Salmon Arm, British Columbia V1E 1J4 (CA).

(74) Agent: EDWARDS, Antony, C.; 800 - 1708 Dolphin Av-  
enue, Kelowna, British Columbia V1Y 9S4 (CA).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,  
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

**Declarations under Rule 4.17:**

- as to applicant's entitlement to apply for and be granted a  
patent (Rule 4.17(ii)) for all designations
- as to the applicant's entitlement to claim the priority of the  
earlier application (Rule 4.17(iii)) for all designations
- of inventorship (Rule 4.17(iv)) for US only

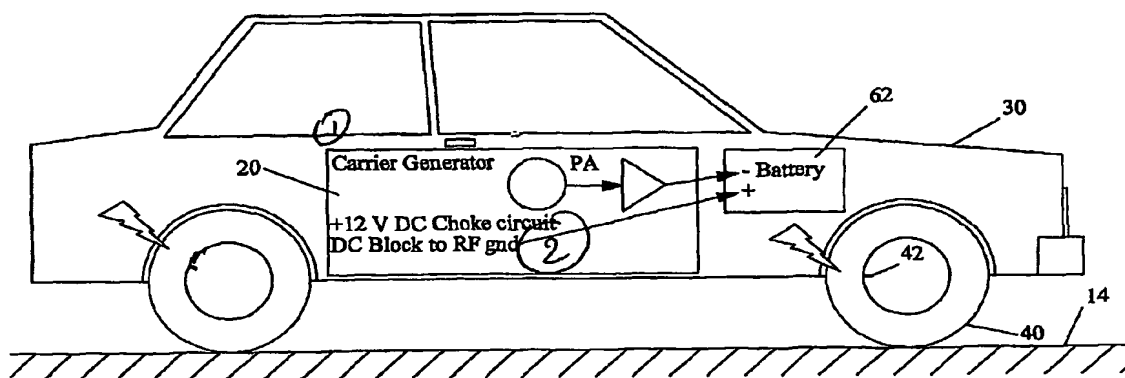
**Published:**

- with international search report

(88) Date of publication of the international search report:  
21 July 2005

[Continued on next page]

(54) Title: MACHINE BODY ANTENNA



(57) Abstract: A communication antenna for communications with a near field device using at least one transmitter and receiver pair, wherein the antenna includes a machine body antenna which is electrically isolated from ground and includes an electrically conductive machine frame, and which, when in electrical communication with one transmitter or receiver element of the transmitter and receiver pair, is excited so as to enable communication between the transmitter and receiver pair when the other of the transmitter or receiver elements is in electrical communication with the near field device and mounted within the near field of the machine body antenna without being in contact with the machine body antenna.

WO 2005/048397 A3



---

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*